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PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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| | | | | |
|--|---------------------------|--|---|--|
| UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b)) | | Attorney Docket No. | 520.40885X00 | |
| | | First Inventor | YUGAMI, JIRO | |
| | | Title | SEMICONDUCTOR DEVICE AND PROCESS FOR PRODUCING THE SAME | |
| | | Express Mail Label No. | | |
| APPLICATION ELEMENTS SEE MPEP chapter 600 concerning utility patent application contents. | | ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231 | | |
| <div><div><p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original and a duplicate for fee processing)</small></p><p>2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p><p>3. <input checked="" type="checkbox"/> Specification [Total Pages: 32] <small>(preferred arrangement set forth below)</small> -Descriptive title of the invention -Cross Reference to Related Applications -Statement Regarding Fed sponsored R & D -Reference to sequence listing, a table, or a computer program listing appendix -Background of the Invention -Brief Summary of the Invention -Brief Description of the Drawings (if filed) -Detailed Description -Claim(s) -Abstract of the Disclosure</p><p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Pages: 7]</p><p>5. Oath or Declaration [Total Pages: 4] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) <small>(for continuation/divisional with Box 18 completed)</small> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) Named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)</p><p>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</p></div><div><p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p><p>8. Nucleotide and/or Amino Acid Sequence Submission <i>if applicable, all necessary</i> a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statements verifying identity of above copies</p></div></div> | | | | |
| ACCOMPANYING APPLICATION PARTS | | | | |
| <p>9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & documents(s)) ✓</p> <p>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney <small>(when there is an assignee)</small></p> <p>11. <input type="checkbox"/> English Translation Document <small>(if applicable)</small></p> <p>12. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations</p> <p>13. <input type="checkbox"/> Preliminary Amendment</p> <p>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small></p> <p>15. <input checked="" type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small></p> <p>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</p> <p>17. <input checked="" type="checkbox"/> Other: SEE 1 IN ADDENDUM</p> | | | | |
| <p>18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:</p> <p><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.:</p> <p>Prior application information: Examiner: _____ Group Art Unit: _____</p> <p>For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.</p> | | | | |
| 19. CORRESPONDENCE ADDRESS | | | | |
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label | | 020457 <small>(Insert Customer No. or Attach bar code label here)</small> | | |
| Name | | ANTONELLI, TERRY, STOUT & KRAUS, LLP | | |
| Address | | | | |
| City | State | Zip Code | | |
| Country | Telephone | Fax | | |
| Name | Gregory E. Montone | Registration No. (Attorney/Agent) | 28,441-28,577 | |
| Signature | <i>Gregory E. Montone</i> | Date | December 7, 2001 | |

Burden Hour Statement: This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

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| <p align="center">UTILITY PATENT APPLICATION TRANSMITTAL (ADDENDUM)</p> <p><i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i></p> | | Attorney Docket No. | | 520.40885X00 |
| | | First Inventor | | YUGAMI, JIRO |
| | | Title | SEMICONDUCTOR DEVICE AND PROCESS FOR PRODUCING THE SAME | |
| | | Express Mail Label No. | | |
| <p>1. CREDIT CARD PAYMENT FORM</p> <p>FIGS. 1A-D, 2A-C, 3A-C, 4A-B, 5, 6A-C, 7A-C</p> | | | | |

Burden Hour Statement. This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

| Variable | Mean | SD | Min | Max |
|--|--------|-------|--------------|------------------|
| Age | 34.5 | 10.5 | 20 | 55 |
| Gender | 50% | 50% | Male | Female |
| Marital status | 65% | 35% | Married | Single |
| Education | 12.5 | 1.5 | 10 | 15 |
| Income | 3500 | 1500 | 1000 | 6000 |
| Occupation | 45% | 55% | Professional | Non-professional |
| Religion | 75% | 25% | Muslim | Other |
| Health status | 85% | 15% | Good | Poor |
| Smoking status | 30% | 70% | Smoker | Non-smoker |
| Alcohol consumption | 10% | 90% | Drinker | Non-drinker |
| Exercise frequency | 2.5 | 1.5 | 0 | 5 |
| Stress level | 4.5 | 1.5 | 1 | 7 |
| Sleep quality | 3.5 | 1.5 | 1 | 7 |
| Appetite | 4.0 | 1.5 | 1 | 7 |
| Weight change | 0.5 | 1.5 | -2 | 3 |
| Blood pressure | 120/80 | 10/10 | 90/60 | 160/100 |
| Blood sugar | 100 | 20 | 70 | 130 |
| Cholesterol | 200 | 50 | 150 | 250 |
| Triglycerides | 150 | 40 | 100 | 200 |
| Hemoglobin A1c | 5.5 | 0.5 | 4.5 | 6.5 |
| Heart rate | 70 | 10 | 60 | 80 |
| Respiratory rate | 16 | 2 | 12 | 20 |
| Oxygen saturation | 95 | 3 | 90 | 100 |
| Temperature | 37.5 | 0.5 | 36.5 | 38.5 |
| Heart rate variability | 50 | 10 | 40 | 60 |
| Heart rate recovery | 15 | 5 | 10 | 20 |
| Stroke volume | 70 | 10 | 60 | 80 |
| Cardiac output | 5 | 1 | 4 | 6 |
| Left ventricular mass | 200 | 30 | 150 | 250 |
| Right ventricular mass | 150 | 20 | 100 | 200 |
| Left atrial mass | 100 | 20 | 70 | 130 |
| Right atrial mass | 80 | 15 | 50 | 110 |
| Left ventricular ejection fraction | 55 | 5 | 45 | 65 |
| Right ventricular ejection fraction | 45 | 5 | 35 | 55 |
| Left atrial ejection fraction | 40 | 5 | 30 | 50 |
| Right atrial ejection fraction | 35 | 5 | 25 | 45 |
| Left ventricular stroke volume | 70 | 10 | 60 | 80 |
| Right ventricular stroke volume | 60 | 10 | 50 | 70 |
| Left atrial stroke volume | 50 | 10 | 40 | 60 |
| Right atrial stroke volume | 40 | 10 | 30 | 50 |
| Left ventricular end diastolic volume | 150 | 20 | 100 | 200 |
| Right ventricular end diastolic volume | 120 | 20 | 80 | 160 |
| Left atrial end diastolic volume | 100 | 20 | 70 | 130 |
| Right atrial end diastolic volume | 80 | 15 | 50 | 110 |
| Left ventricular end systolic volume | 80 | 10 | 60 | 100 |
| Right ventricular end systolic volume | 60 | 10 | 40 | 80 |
| Left atrial end systolic volume | 50 | 10 | 40 | 60 |
| Right atrial end systolic volume | 40 | 10 | 30 | 50 |
| Left ventricular mass index | 100 | 15 | 70 | 130 |
| Right ventricular mass index | 75 | 10 | 50 | 100 |
| Left atrial mass index | 50 | 10 | 40 | 60 |
| Right atrial mass index | 40 | 10 | 30 | 50 |
| Left ventricular ejection fraction index | 55 | 5 | 45 | 65 |
| Right ventricular ejection fraction index | 45 | 5 | 35 | 55 |
| Left atrial ejection fraction index | 40 | 5 | 30 | 50 |
| Right atrial ejection fraction index | 35 | 5 | 25 | 45 |
| Left ventricular stroke volume index | 70 | 10 | 60 | 80 |
| Right ventricular stroke volume index | 60 | 10 | 50 | 70 |
| Left atrial stroke volume index | 50 | 10 | 40 | 60 |
| Right atrial stroke volume index | 40 | 10 | 30 | 50 |
| Left ventricular end diastolic volume index | 150 | 20 | 100 | 200 |
| Right ventricular end diastolic volume index | 120 | 20 | 80 | 160 |
| Left atrial end diastolic volume index | 100 | 20 | 70 | 130 |
| Right atrial end diastolic volume index | 80 | 15 | 50 | 110 |
| Left ventricular end systolic volume index | 80 | 10 | 60 | 100 |
| Right ventricular end systolic volume index | 60 | 10 | 40 | 80 |
| Left atrial end systolic volume index | 50 | 10 | 40 | 60 |
| Right atrial end systolic volume index | 40 | 10 | 30 | 50 |

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FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

Complete if Known

| | |
|----------------------|------------------|
| Application Number | |
| Filing Date | December 7, 2001 |
| First Named Inventor | YUGAMI, JIRO |
| Examiner Name | |
| Group Art Unit | |
| Attorney Docket No. | 520.40885X00 |

TOTAL AMOUNT OF PAYMENT (\$ 864.00)

METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit overpayments to:
- Deposit Account Number 01-2135
Deposit Account Name Antonelli, Terry, Stout & Kraus, LLP
- ☒ Charge Any Additional Fee Required
Under 37 CFR 1.16 and 1.17
- ☐ Applicant Claims small entity status
See 37 CFR 1.27

2. ☒ Payment Enclosed:
☐ Check ☒ Credit Card ☐ Money Order ☐ Other

FEE CALCULATION

2. BASIC FILING FEE

| Large Fee Code | Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description | Fee Paid |
|----------------|-----------------|-----------------------|-----------------------|------------------------|----------|
| 101 | 740 | 201 | 370 | Utility filing fee | 740.00 |
| 106 | 330 | 206 | 165 | Design filing fee | |
| 107 | 510 | 207 | 255 | Plant filing fee | |
| 108 | 740 | 208 | 370 | Reissue filing fee | |
| 114 | 160 | 214 | 80 | Provisional filing fee | |

SUBTOTAL (1) 740.00

1. EXTRA CLAIM FEES

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|-------------------------|--------------|----------------|----------|
| 20 -20** = 0 | | x 0.00 | = 0.00 |
| Indep. Claims 4-3** = 1 | | x 84.00 | = 84.00 |
| Multiple Dependent | | 0.00 | = 0.00 |

| Large Fee Code | Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description | Fee Paid |
|----------------|-----------------|-----------------------|-----------------------|--|----------|
| 103 | 18 | 203 | 9 | Claims in excess of 20 | |
| 102 | 84 | 202 | 42 | Independent claims in excess of 3 | |
| 104 | 280 | 204 | 140 | Multiple dependent claim, if not paid | |
| 109 | 84 | 209 | 42 | ** Reissue independent claims over original patent | |
| 110 | 18 | 210 | 9 | ** Reissue claims in excess of 20 and over original patent | |

SUBTOTAL (2) \$ 84.00

**or number previously paid, if greater; For Reissues, see above.

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Fee Code | Large Entity Fee (\$) | Fee Code | Small Entity Fee (\$) | Fee Description | Fee Paid |
|----------|-----------------------|----------|-----------------------|--|----------|
| 105 | 130 | 205 | 65 | Surcharge - late filing fee or oath | |
| 127 | 50 | 227 | 25 | Surcharge - late provisional filing fee or cover sheet | |
| 139 | 130 | 139 | 130 | Non-English specification | |
| 147 | 2,520 | 147 | 2,520 | For filing a request for <i>ex parte</i> reexamination | |
| 112 | 920* | 112 | 920* | Requesting publication of SIR prior to Examination action | |
| 113 | 1,840* | 113 | 1,840* | Requesting publication of SIR after Examiner action | |
| 115 | 110 | 215 | 55 | Extension for reply within first month | |
| 116 | 400 | 216 | 200 | Extension for reply within second month | |
| 117 | 920 | 217 | 460 | Extension for reply within third month | |
| 118 | 1,440 | 218 | 720 | Extension for reply within fourth month | |
| 128 | 1,960 | 228 | 980 | Extension for reply within fifth month | |
| 119 | 320 | 219 | 160 | Notice of Appeal | |
| 120 | 320 | 220 | 160 | Filing a brief in support of an appeal | |
| 121 | 280 | 221 | 140 | Request for oral hearing | |
| 138 | 1,510 | 138 | 1,510 | Petition to institute a public use proceeding | |
| 140 | 110 | 240 | 55 | Petition to revive - unavoidable | |
| 141 | 1,280 | 241 | 640 | Petition to revive - unintentional | |
| 142 | 1,280 | 242 | 640 | Utility issue fee (or reissue) | |
| 143 | 460 | 243 | 230 | Design issue fee | |
| 144 | 620 | 244 | 310 | Plant issue fee | |
| 122 | 130 | 122 | 130 | Petitions to the Commissioner | |
| 123 | 50 | 123 | 50 | Processing fee under 37 CFR 1.17(q) | |
| 126 | 180 | 126 | 180 | Submission of Information Disclosure Stmt | |
| 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) | 40.00 |
| 146 | 740 | 246 | 370 | For each additional invention to be examined (37 CFR § 1.129(a)) | |
| 149 | 740 | 249 | 370 | For each additional invention to be examined (37 CFR § 1.129(b)) | |
| 179 | 740 | 279 | 370 | Request for Continued Examination (RCE) | |
| 169 | 900 | 169 | 900 | Request for expedited examination of a design application | |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 40.00

SUBMITTED BY

Complete (if applicable)

| | | | | | |
|-------------------|---|-----------------------------------|--------|-----------|--------------|
| Name (Print/Type) | Gregory E. Montenero | Registration No. (Attorney/Agent) | 28,141 | Telephone | 703-312-6600 |
| Signature |  | | | Date | 12/07/01 |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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